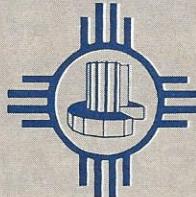


Centrally Speaking

A Cray Research Inc. Central Region Publication



Volume 1, Number 2,

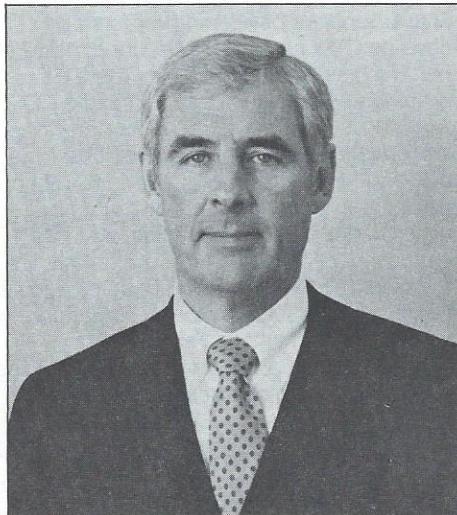
August 1985

BRUCE KASSON TEACHES ACCOUNT PLANNING

Bruce Kasson, Vice President of Government Marketing, shared some of his marketing knowhow with the Central Region salesmen and technical management recently. Bruce conducted a one-day workshop on "How to Create and Execute a Marketing Plan," on June 4th in Denver.

The simple but effective methodology for effective account planning involves first, clearly defining objectives; next, identifying problems or roadblocks to achieving those objectives; then, devising strategies for solving or eliminating the problems. Some of the keys to producing a true working document are the following:

1. Write it all down so clearly that anyone should be able to read the plan and know exactly what needs to be done.
2. Concentrate on here-and-now problems that you can do something about.



Bruce Kasson

3. Use binary thinking; establish a crisp way of making decisions.
4. Define specific milestones integrated with your strategies: what you will accomplish, dates, and who is responsible.
5. Make effective use of company resource people for gathering information and completing auxiliary tasks.
6. Publish the plan. Share the plan with those from whom you require support so that they can offer their ideas and solutions.

The Central Region sales staff and Region managers who attended the workshop report that the methods they learned from Bruce have helped standardize, formalize and organize communications among themselves regarding their sales activities. In the world of account planning, knowing where you're going is half way to getting there.

open letter from

Growth and Change was the theme of our Region Meeting in Jackson Hole and is a fact of life at Cray Research. An organization that grows and changes adds additional stress to our already challenging working environments.

We were fortunate to have Marcelo Gumucio and Margaret Loftus attend our Region Meeting. Marcelo gave a presentation which touched at the roots of our growth and change:

- The challenge of foreign and domestic competitors to our market prominence,
- The challenge to marketing and support functions of a more varied product line and on-going introduction of new products,
- The challenge of multiple organizational development stages happening simultaneously in different parts of Cray.

Marcelo had some suggestions for dealing with growth and change at Cray and I strongly endorse his ideas. All of us need to support these important practices:

1. "Thoughtful recruiting, selection and training." In the next six months, we will add more than 20 new employees to our Central Region organization. Continuing to find, hire and train the very best is critically important.
2. "Rely on small teams and encourage team building." The site team concept has always worked successfully for customer support at Cray. We need to also encourage the team concept in marketing and staff support to optimize planning and problem solving. Engineers and analysts working as a team must be recognized and supported.
3. "Manage the Cray Style." The Cray Style allows us freedom but also requires responsibility. Professionalism, trust and open communications are the basis for continued success of The Cray Style.
4. "Organizational and Human Resource Planning." We will probably always remain lean and mean, but up-front planning for growth, both through district decentralization and employee development, will help prevent the burn-out and stress common to high growth organizations.
5. "Place Human Resource expertise where the action is." All levels of management must develop skills and expertise in communicating, coaching and developing our employees. Region functional managers and HR staff are there to consult and provide counsel, but the job of keeping all our employees secure, challenged and productive is a key responsibility of first line management.

I am sorry that critical customer support needs prevented some of you from attending our Region Meeting. The presentation of our other guest, Margaret Loftus, and updates by our people from the Region, Districts and Sites were informative and stimulating. I was proud of all of you.

Technical News

CTSS WORLD

by John Barnes

Four sites in the Central Region are involved in various ways with the CTSS operating system. Los Alamos National Laboratory (LANL) is running CTSS on six mainframes ranging from a CRAY-1/A to a projected X-MP/48 that was delivered in July. The Air Force Weapons Laboratory (AFWL) is running on a CRAY-1/S. Sandia National Laboratories, Albuquerque (SNLA) is developing CTSS for an X-MP/24 and a CRAY-1/S. The University of Illinois (U of I) is in the planning stages of implementing CTSS on their projected X-MP/24. These sites are concerned with several versions of the baseline CTSS, and releases of the Cray product set. Baseline CTSS is a primary concern of the CTSS Consulting Group (CCG), while the product set (and additional utilities for CTSS) are a concern of analysts in both the Western and Central Regions.

LANL: Los Alamos is running with a highly modified version IV of the baseline CTSS, and is moving toward version V. Rob Cunningham and Jeff Brown have implemented release 1.14 bugfix 1 of CFT and have made it available to rigorous testing as only the user codes at LANL can provide. Hal Meyer has converted release 1.14 bugfix 1 of IOS for use with CTSS and is waiting for the change control process to ready it for production.

AFWL: The Weapons Lab is currently running a modified version IV of the baseline. Customer analysts are planning to implement version V soon and are looking at a good (or better) batch monitoring environment for user jobs and looking at implementing NETX protocol under CTSS. Sylvia Crain is working on improvements to CTSS utilities **diskedit** and **secded** that will allow for DD49's on an X-MP/48. Mike Davis is looking into the mysteries of the RDOS/CTSS station software while Kevin Davis is getting hands-on experience with CTSS.

SNLA: Sandia is developing version V of baseline CTSS on an X-MP/24 using their CRAY-1/S as a development machine. The CTSS development is taking place during the COS acceptance period. Sandia has set implementation target of October 1 for the X-MP and December 31 for the 1/S. John Barnes is involved in the effort to add NSC hyperchannel support for Sandia's MASSNET protocol under release 1.14 bugfix 1 of the IOS. Cassandra Shaw is providing both release 1.13 bugfix and 1.14 bugfix 1 product set support for the CTSS implementation effort. Tom Mortensen and Cassandra Shaw are providing operating system support for COS during the interim.

U of I: The university is moving toward the acquisition of an X-MP/24. Plans are to implement version V of the baseline CTSS with modifications to release 1.14 bugfix 1 of the IOS to support an NSC hyperchannel connection to the university's VAX network. Brad Woodworth has been involved in every stage of the pre-site, software planning, and reports a great deal of customer enthusiasm toward the implementation effort.

SANDIA ACCEPTS NEW X-MP

by Tom Bentley

On May 20, X-MP S/N 124 arrived at Sandia. The installation was completed on May 27th with very few problems. The installed equipment includes an X-MP/24, a three processor IOS, a 32MW SSD Model C, and 12 DD-49 disk drives. This new system is in addition to the Cray-1/S presently installed.

After a few software and interface adapter problems, the system went into acceptance on June 8. The entire system was accepted on July 7 with an overall user availability of 99.9%. I would like to give special thanks to Mike Holly

for his assistance with the disk drives and for the DD-49 class he gave at Sandia.

The site team at Sandia consists of Larry Clay, Bill Hill, Cassandra Shaw, and John Barnes. Allen Ballweg is in training in Chippewa Falls and should be on site in September.

Special software installation assistance was provided by Tom Mortensen of the New Mexico District office, Steve Gombosi of the Central Region office, and Stan Novey of Mendota Heights.

X-MP WITH SSD WINS AGAIN!

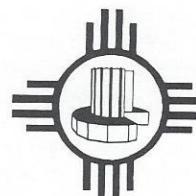
by Bob Welick

A paper entitled "**Implementation of the Modified Conjugate Gradient Solver on the CRAY X-MP**" has been submitted for publication in Computer Physics Communications by R. E. Welick of Cray Research, Inc. and K.J.M. Moriarty of Dalhousie University in Halifax, Nova Scotia.

This modified Conjugate Gradient algorithm, which was recently introduced, is intended for the solution of large, out of memory, problems. It is a one-pass algorithm which minimizes the still large amount of I/O required. As such, it affords a good test of the SSD. Also, due to the nature of the computation in the algorithm, the gather/scatter hardware on the X-MP/48 was put to good use.

The algorithm was applied to the Monte Carlo lattice gauge theory algorithm, working on a 16 x 32 lattice. This results in a system of linear equations of order roughly 10^7 . For this problem approximately 1 Mwd of main memory and about 10 Mwd of SSD was required. An elapsed time of slightly less than two seconds per iteration was achieved for the conjugate gradient computation using one CPU of the X-MP/48 system. The I/O time accounts for less than ten percent of the elapsed time, thus demonstrating that the SSD is a very powerful I/O device. The exact timings for 60 iterations are 108 and 116 second for the CPU and wall-clock times, respectively, resulting in a 93 percent CPU utilization.

This algorithm had previously been implemented on a CYBER 205 with 32-bit arithmetic and using asynchronous I/O resulting in a very I/O bound computation. The X-MP using 64-bit arithmetic took approximately 40 percent more CPU time, but was over four times faster in elapsed time.



INTERNATIONAL ANALYST MEETING '85

by Bob Sabourin

The International Analyst Meeting, held during the week of May 13th at the Radisson Hotel in Minneapolis, was termed a big success by all who were involved.

The purpose of the meeting was threefold: to provide corporate and technical update, as a tool of communication between analysts and the rest of the corporation, and to provide an atmosphere for social interaction between analysts from all parts of Cray.

Corporate updates featured keynote speaker John Rollwagen, as well as other notable figures within Cray. Technical sessions, including UNIX, COS advanced features, Benchmarking, and others, were chaired by experts from the regions and Mendota. Feedback gathered from analysts at the end of each session showed that the workshops were highly regarded. Mendota and region analysts

agreed that the interaction which took place at each session was extremely valuable.

Mary Amiot received a dozen roses as well as many thanks from the planning committee for her part in organizing all social and technical events which took place at the meeting. Highlights of the social calendar included a kickoff cocktail party, a special analyst dinner, and an Open House with Mendota.

To wrap up the meeting, Judy Baker chaired a session in which major issues brought during the meeting were distributed to analysts, who were grouped 10 to a table. The analysts further defined the issues, and then proposed a list of suggestions concerning each. The issues and resolutions were then summarized for the Region Analyst Managers, who promised to pursue them and give a report on actions taken at the next meeting.

Thanks to Tom Mortensen, a video tape will soon be provided which will show various parts of the meeting.

Dave Sundstrom of Western Region will be taking on responsibility for chairing next year's meeting. Steve Gombosi will be representing Central Region, and I will be sitting in from time to time in a consulting capacity. We welcome any suggestions you may have concerning plans for the next meeting.

[Editor's Note: Bob Sabourin was the Planning Chairman for the 1985 International Analyst Meeting.]

RENO MEETING A GOOD BET FOR FE'S

by Steve White

Central Region EICs, District Managers, and Region Technical Support Engineers gathered in Reno, Nevada, at the MGM Grand Hotel May 2nd and 3rd for a semi-annual management meeting. Topics included: site performance, training status, project plans and a general overview of what the Cray systems are being used for by our Central Region Customers. EIC's Jim Allshouse, Lou Collins, Erv Bentley, Kathy Eudy, Larry Clay, Dale Shiels, Bob Vanderveen, Jim Martinez and Larry Knepper came prepared with overhead slides, films and video tapes to complement individual 30-minute presentations covering their areas of responsibility. District Managers Tom Bentley and Bill Baird gave a

seminar on "Account Management" and RTS Engineers Doug Johnson and Rich Garrett led the group through a short course in "Structured Problem Solving." Our HR Manager Laura Wallace showed us how "Positive Discipline" works and how it can enhance performance as well as address specific problem areas. Region Field Engineering Manager Steve White gave a Regional performance overview and stressed the importance of continually improving system performance through increasing MTI. Kay Vaughan was our meeting coordinator and arranged facilities and communications.

REGION MANAGER LUNCHEONS

During the next twelve months, all of our Central Region employees will have the opportunity to attend a General Manager Luncheon, hosted by Bob Walan. The objective of these luncheons will be to provide a forum for introductions of new people, discussions of issues, and sharing of business and technical news. Invitations will be extended so that each luncheon will host a cross section of new hires, veterans, region and district managers, salesmen and administrative staff.

The first GM luncheon was held on July 19 in Albuquerque for people from the New Mexico district.

The next luncheon will be held on August 19th in Dearborn for people from the Detroit District.

Region Meeting Brings Central Region Peop

The mountain beauty and crystalline air of Jackson Hole, Wyoming was the perfect setting for the 1985 Region Meeting on June 13, and 14.

Central Region employees had opportunities, both formal and informal, to meet their colleagues from all over the region and to hear about the status of our sites and accounts.

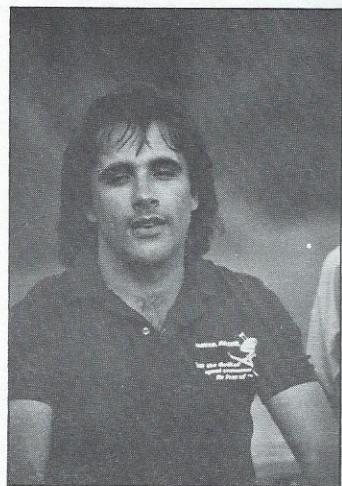
Marcello Gumucio and Margaret Loftus, both members of the Central Region Advisory Board, presented

valuable information on Marketing and Software issues facing Cray Research.

Region and District Managers also gave presentations on business topics impacting our region.

And of course, there were numerous opportunities for Cray people to "play as hard as they work . . ." (see our photo essay on page 6).

(Editor's Note: Thank you to Ron Larson and his roving candid camera for the Jackson Hole photo portraits on these two pages.)



Rob Cunningham



Margaret Loftus

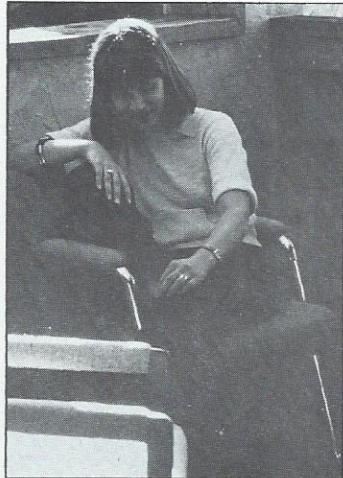


Marcelo Gumucio



Dave Hixson

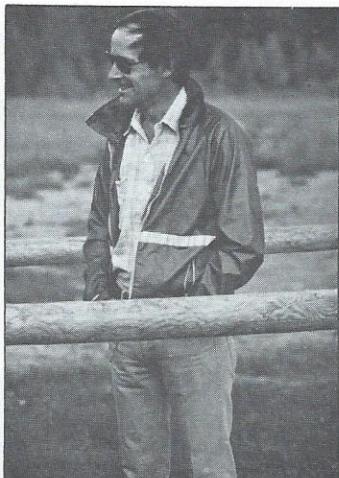
People Face to Face



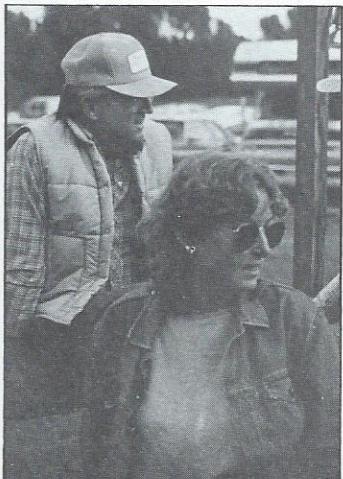
Teresa Homan



Rene Copeland



Bob Cox



Bill Baird, Evelyn Buchanan



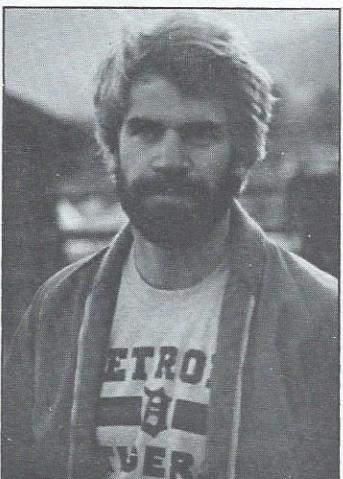
Cassandra Shaw



Sonya Anderson



Patty Kellett



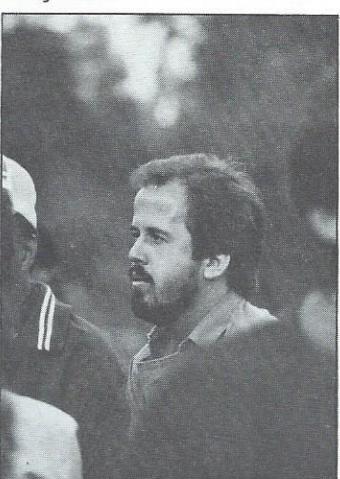
John Walsh



Tony Warnock



Bob Hippe, Larry Knepper



Tim Juaire

Central Region People at Play in Jackson Hole

Following the business meetings at Jackson Hole, the fun began . . . in a variety of ways:

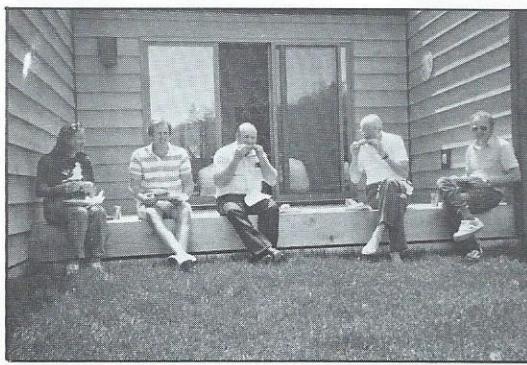
- visiting the local tourist attractions . . .
- visiting the local watering holes . . .
- sharing a meal in the sunshine . . .
- hiking in the mountains . . .
- sharing a ski lift ride **up** a mountain . . .
- daredevil slides **down** a mountain . . .
- three groups of white water daredevils.



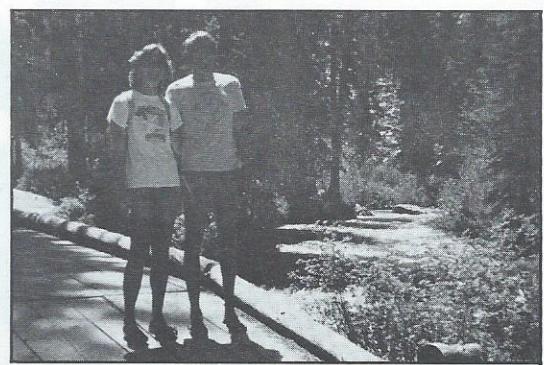
Tom Bentley



Patty Kellett, Steve Gombosi



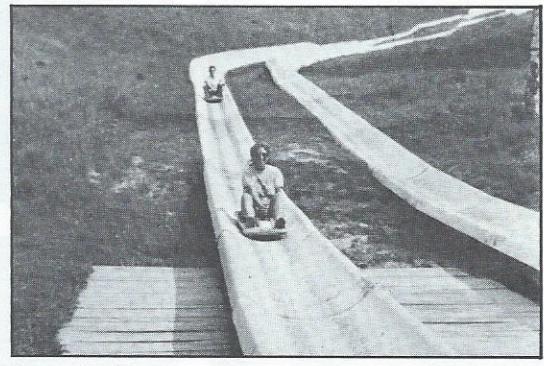
(Left to Right) Patty Kellett, Bob Sabourin, Tom Bentley, Bob Biro, John Howland



Lynn Price, Bob Welick



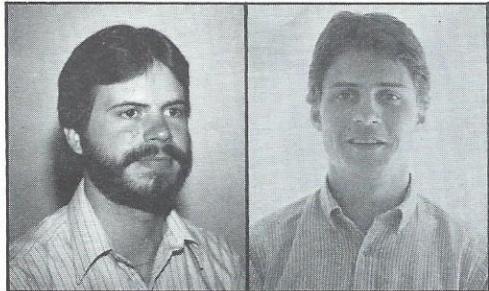
Dale Sheils, Dave Garman



Evelyn Buchanan

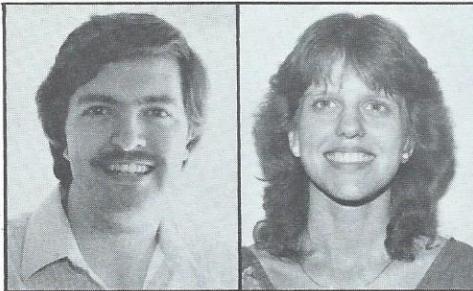


Region People Newcomers



Doug Cook

Kevin Davis



Mike Davis

Beth Fry



Chris Hart

Mark Jeche

GARY BULLERMAN, CUSTOMER ENGINEER

GARY BULLERMAN, CUSTOMER ENGINEER, is currently in training in Chippewa Falls for his future assignment at the University of Illinois. Gary is from the Champaign, Illinois area and is single. He attended The University of Texas and Parkland College, as well as receiving electronics training in the Army. He brings to us six years of CE experience at Control Data. Along with his interests in home computers, Gary is also an outdoorsman and enjoys small game hunting, fishing, and gardening.

DOUG COOK, SENIOR CUSTOMER ENGINEER AT FORD IN DEARBORN

DEARBORN, is from the Rochester, Michigan area. Doug and his wife Deborah have a year-and-a-half-old son Ryan. Doug worked for seven years at CDC after spending two years at the University of Michigan in the Electrical Engineering program. Doug also attended Control Data Institute. When not playing with his home computer or pounding on his drums, Doug enjoys skiing and golf.

KEVIN DAVIS, PROGRAMMER ANALYST

ANALYST, is currently from Denver and is assigned to the New Mexico district. Kevin served in the Army Corps of Engineers concurrent with school at The University of New Mexico where he received his B.S. degree in Computer Science this spring. Kevin is single and loves all outdoor activities including ballooning.

MIKE DAVIS, PROGRAMMER ANALYST

ANALYST, is assigned to AFWL in the New Mexico district. Mike and his wife Kathy are expecting their first child soon. Mike comes to us from D.S. Associates where he was a Computer Systems Manager. Mike received a B.B.A. degree with a computer science minor from the University of New Mexico. He says his interests are music, computers, bowling, computers, hiking, and computers.

RUSS EADIE, CUSTOMER ENGINEER AT FORD IN DEARBORN

FORD IN DEARBORN, and his wife Bridget are happy to move back to their former stomping ground in Michigan. Russ transferred to us from the Eastern Region where he worked at the Schlumberger site. Russ received his electronics training during a 7½-year stint in the Navy. Russ says his interests outside of work include woodworking and hunting.

BETH FRY, SECRETARY, DETROIT DISTRICT OFFICE

OFFICE, is from Southgate, Michigan. Beth has two children, Michael, age 2½ and Sarah, age 1½. Beth has done clerical and secretarial work for a VA Medical Center and an accounting firm before coming to Cray. Working and caring for her little ones takes up most of her time, but she also enjoys camping, traveling, and sewing.

CHRIS HART, ASSOCIATE ACCOUNTANT, BOULDER REGION OFFICE

BOULDER REGION OFFICE, is a transplanted Easterner from Warwick, Rhode Island, who now lives in Boulder. Chris got his Accounting degree from Clarion University in Pennsylvania and served in both the Navy and Coast Guard before his most recent job at FMC, Inc. Long, tall, red-haired Chris is a bit of a philosopher and enjoys skiing and basketball.

MARK JECHE, ASSOCIATE CUSTOMER ENGINEER

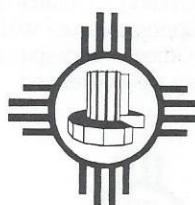
ENGINEER, transferred to the Central Region from Module Test in Chippewa Falls. Mark is originally from the Rochester, Minnesota area and received his technical training from Rochester Area Vo-Tech. Prior to coming to Cray, he was a construction equipment repairman for Rental Depot. Mark has a wide range of interests and, being single, he can afford to spend his free time motocross racing, hunting, fishing and skiing (both downhill and water).

DENNIS LAMBKA, ACCOUNT MANAGER IN THE DETROIT DISTRICT

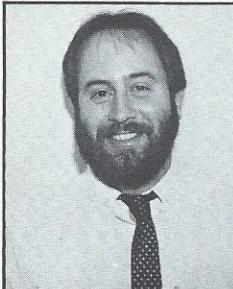
DETROIT DISTRICT, has been with the Central Region since February of this year, but is a bit shy of both photos and talking about himself. (He finally got tracked down and this information forcibly extracted!) Dennis and his wife Gail are "Motor City" natives and Dennis' marketing focus is the automotive industry. He received his B.S.E.E. from Oakland University and is currently completing his MBA at Wayne State University. Dennis enjoys golf, racketball and chess as spare time activities.

ROBERT MOORE, PROGRAMMER ANALYST

ANALYST, will be heading for a site assignment in St. Louis after his initial training in Mendota. Bob comes to us from Lynchburg, Virginia where he worked for Babcock and Wilcox Co. Bob and his wife, Vicki, have a son, Robert, age 4. Bob attended Southern Missouri State University and received his BS in Computer Science from the University of Missouri. Bob, in his spare time, heads for the outdoors, hunting, fishing and canoeing.



Region People Newcomers



Jim Neidert



Elton Nelson



Dale Purdy



Larry Sjoberg



Susan Ward

JIM NEIDERT, ASSOCIATE CUSTOMER ENGINEER, will be attending Cray training in Chippewa Falls before reporting for his assignment in the New Mexico district. Minnesota-born Jimmy says that he is single and "free" and spends every free moment in outdoor activities. Jimmy comes to us from First Data Resource Field Service Company where he worked for 2½ years. Prior to that he attended the North Georgia Technical and Vocational School.

ELTON NELSON, REGION TECHNICAL SUPPORT ENGINEER, is a 20-year veteran of CDC. He will be traveling the region as RTS but will be based in Albuquerque where he lives now with his wife Dorothy and daughter, Catherine, age 17, and son Thomas, age 15. Elton got his technical start in the Air Force prior to his solid career at Control Data. His varied interests include woodworking, hiking, and home computers.

WILLIAM ODELL, ASSOCIATE CUSTOMER ENGINEER, is headed for training in Chippewa Falls for a future site assignment in Detroit. Bill and his wife Gale and children Kristin (1½) and Justin (4 months) are from Cleveland, Ohio. Bill previously worked for General Instrument Corporation and got his electronics training at the Total Technical Institute. Sports and especially golf keep him busy outside of work along with his interest in antique cars.

DALE PURDY, PROGRAMMER ANALYST, is assigned to the University of Illinois site in Champaign. We are importing Dale and his wife Evelyn and children, Rachel, 8 years, Heather, 4 years, and David, 2 years, from St. Louis. Dale has been employed by Petrolite where he was the HP-1000 System Manager for five years. Dale received his degree in mathematics from Indiana University. Motorcycling is one of his spare-time passions.

LARRY SJOBERG, REGION FACILITIES SUPPORT ENGINEER, will be located at the New Mexico district office when he's not roaming the region planning and coordinating hardware installations. He originally hailed from Northern Minnesota but has been a transplanted New Mexican for years. Larry is a 22-year Veteran of Control Data Corporation. Larry and his wife, Gerri, have three children: Larry, Jr. (age 25), Debbie (age 24), and Michael (age 19). Where you find water in New Mexico, you'll find Larry trying to sail on it.

RICK SWIRTZ, EIC AT THE UNIVERSITY OF ILLINOIS SITE, is a Minneapolis native. He has spent the past four years with the Petroleum Region. Rick and his wife Marilyn have four children: Daniella, aged 9, Jennifer, aged 5, Stephanie, aged 3, and Ricky, aged one. Rick got his technical training at Control Data Institute and prior to that spent almost five years in the Air Force. They say of Rick's woodworking skills, "He is a wonder with wood."

SUSAN WARD, HUMAN RESOURCES SENIOR SECRETARY, recently relocated to Boulder from Santa Cruz where she worked for American Medical International as a personnel administrator. Susan has two sons, college student Phillip, and thirteen-year-old Jason. Susan will be providing secretarial and administrative support to Laura Wallace at the Boulder Region Office, and despite their resemblance, they are **not** related.

In Memoriam

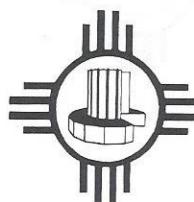
We announce with great sadness the death of Steve Seres, Senior Customer Engineer, who worked at the Air Force Weapons Lab in Albuquerque. Steve had been a Cray employee since 1982.

Steve died on May 29 of a heart attack at the age of 46. He leaves his wife, Carol, an eleven-year-old son, and a fourteen-year-old daughter. Many of us from the Central region attended a beautiful funeral service for him on Monday, June 3, in Albuquerque.

Steve was an outgoing kind of a guy with an easy lopsided grin. He was intense about his work and a loyal friend to his co-workers. We'll miss him.

Transitions

- John Barnes, SNLA
- Kathy Eudy, EIC, St. Louis
- Dale Shiels, EIC, General Motors
- Bill Hill, Senior CE, SNLA
- Richard Garrett (transfer from HW to SW), Programmer Analyst, U of MN



HR Corner

HARD WORK DESERVES MORE THAN JUST A PAT ON THE BACK . . .

We are pleased to announce the introduction of the **EMPLOYEE RECOGNITION CASH BONUS PROGRAM**. This award program is intended to reward the efforts of any individual or group of employees in the Central Region for performance "above and beyond the call of duty." All Central Region Employees are eligible to have their accomplishments nominated by their manager for a Cash Bonus Award. This program is in addition to our established merit and promotional salary increase program.

The performance criteria for nomination for a cash bonus are as follows:

1. Extraordinary performance either by an individual or a team on a defined project or task. (High levels of performance for extended periods would be most effectively recognized through a generous merit increase or promotion rather than a one-time cash bonus.)

OR

2. Performance that required great personal sacrifice in terms of commitment to travel and loss of personal time in the accomplishment of a project.

OR

3. A significant innovative or cost saving idea.

We are proud to announce and congratulate the first two awardees in our Employee Recognition Program:

STEVE GOMBOSI—for his work on the Ford software development project

PATTY KELLETT—for her work in organizing and directing the physical office move of the Central Region office in Boulder.

EMPLOYEE INFORMATION CHANGE FORM

by Teresa Homan

Are you wondering why your PCS card came late, or never came at all, why you never received your Deferred Profit Sharing/401 (k) account statement, why the employees who report to you showed up on someone else's salary action report? The most common reason is that the Region HR group did not have the correct information.

A few months ago, we generated an Employee Information Change Form. This form is our only means of updating employee information on the Human Resources Information System. All personnel, benefits, and compensation actions are based on information in the HRIS.

It is of the utmost importance that managers and employees take the responsibility of informing the Region HR group of all employee information changes in a timely manner.

It is again requested that employees and managers do not call Corporate with changes. A call to Liz Poland with an address change does not guarantee that the Corporate and Region HR groups will be notified. In fact, we probably won't! Changes must first be given to the Region; we will then pass on the new information on to the proper people.

SIGNIFICANT HAPPENINGS

- **JIM ALLSHOUSE, EIC at U of MN, married CYNTHIA KOSIAK** on June 8, 1985 in Lake Elmo, Minnesota.
- **JIM McINERNEY, Programmer Analyst at NCAR, and wife SHERYL** are the proud parents of **Daniel James**, born March 19, 1985. He was 19" long and weighed 8 lbs., 7½ oz. at birth.

- **GARY SIMALA, ACE at UIS, and wife STEPHANIE** gave birth to their daughter, **MEGAN**, seven weeks early on June 6, 1985. Megan weighed 4 lbs., 10 oz. and was 17" long.

DALLAS DISTRICT SUPPORT STAFF ANNOUNCES SHIPMENT OF THE "STEVE WHITE" MODEL

Dallas, TX, May 15, 1985—The Dallas District Support Staff today reported shipment of the "Steve White" model to the Central Region in Boulder, Colorado. Field testing in Dallas was excellent with no downtime.

WARRANTY: This model is guaranteed against any and all defects, homesickness, high-altitude

giddiness, withdrawal from TEX MEX food, armadillos, the Dallas Cowboys, Texas Ranger ballgames, and 3-Alarm chili.

**RETURN POSTAGE AND FREIGHT TO
DALLAS ARE GUARANTEED BY THE
DALLAS DISTRICT SUPPORT STAFF.**

PUBLICATIONS

"QCD on a Cray: The Masses of Elementary Particles" by Gerald Guralnik, **Tony Warnock** and Charles Zemach, in the Summer/Fall 1984 issue of LOS ALAMOS SCIENCE.

"Psuedo-Random Trees in Monte Carlo," by Paul Frederickson, Robert Iromoto, Thomas L. Jordan, Burton Smith, and **Tony Warnock**, in PARALLEL COMPUTING, Volume 1, Number 2.

CRAY SOFTBALL IN MICHIGAN

by Bob Sabourin



Debbie Sabourin—concentrating on the hit

The Cray-Ons, G.M. Research Lab's women's softball team, are having a rough time in the first half of their schedule this year. The team has greatly improved in their defense and offense since last year, but as luck would have it, they faced the stronger teams in the league in their opening three games. Led by Debbie Sabourin, shortstop/pitcher, and Lynn Truss, third base, who are both batting over .500, the team hopes to turn things around, and pull out with a record .500 season this year. Based on their first outings, the coaches feel that this should not be a problem.

The Cray Men's softball team, led by the power hitting of John Walsh, analyst at GMR, and Dale Shiels, EIC at GMR, has jumped off to a fast start in their first year of competition. The

team has compiled a 5-3-1 record, and currently holds third place in its division. Playoffs start in August with two game elimination of 200 teams. Bob Sabourin was put on probation due to missing the last three games for business travel, but will be reinstated in time for the double header with the agreement that he pays a fine of one 12-pack. Bob's strong bat and "prowess" (not speed) on the base paths should prove a valuable addition to the team's offense. Other strong contributors to this year's team have been Dave Londo, C.E. at GMR, and Dave Garman, C.E. at GMR. These two are playing the keystone combination, turning double plays on any balls hit up the middle. Watch out Detroit Tigers!

Events Calendar

Dump Analysis Workshop

August 19-23
Mendota
Region Contact: Ron Larson

International EIC Meeting

September 9-12
Theme: "Service—A Window to Cray"
Minnesuing Acres, Northern Wisconsin

Benchmarking Workshop

September 10-12
Mendota
Region Contact: Ron Larson

Cray Users Group (CUG)

September 30—October 3
Montreal, Canada

Joint Eastern Region/Central Region Analyst Meeting

October 8, 9, 10 (reception evening of 7th)
Westin Hotel, near Georgetown,
Washington, D.C.
(Contact Rosanne Balser regarding ideas or
requests for agenda items and/or speakers.)

Letters to the Editor

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Centrally Speaking is Published by the
Central Region, Cray Research, Inc.
5350 Manhattan Circle
Boulder, Colorado 80303
Telephone (303) 499-3055

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